|                              | Index of Claims |          |              |                 |          |          |             |          |          |        |  |           |               | Application/Control No. |              |              |              |           |             |          |            |             | Reexamination |               |          |          |          |                 |          |         |            |  |
|------------------------------|-----------------|----------|--------------|-----------------|----------|----------|-------------|----------|----------|--------|--|-----------|---------------|-------------------------|--------------|--------------|--------------|-----------|-------------|----------|------------|-------------|---------------|---------------|----------|----------|----------|-----------------|----------|---------|------------|--|
|                              |                 |          |              |                 |          |          |             |          |          |        |  |           | .             | 10/693,209              |              |              |              |           |             |          |            |             |               | CHANG ET AL.  |          |          |          |                 |          |         |            |  |
|                              |                 |          |              |                 |          |          |             |          |          |        |  |           |               |                         |              | Examiner     |              |           |             |          |            |             |               |               |          | Art Unit |          |                 |          |         |            |  |
| !                            |                 |          |              |                 |          |          |             |          |          |        |  |           |               | ١.                      | Phu Vu       |              |              |           |             |          |            |             |               |               |          |          |          |                 |          |         |            |  |
|                              |                 |          |              |                 |          |          |             |          |          |        |  |           |               | Phi                     | ı Vı         | <u></u>      |              |           |             |          |            | 1           | 28            | 71            |          |          |          |                 |          |         |            |  |
| / Rejected (Through numeral) |                 |          |              |                 |          |          |             |          |          |        |  |           |               |                         | 1 1          |              |              |           |             |          |            |             |               |               |          |          | $\neg$   |                 |          |         |            |  |
|                              |                 |          | <b>√</b>     | Re              | eje      | cte      | d           |          | -        | -      | (11  | nrou<br>ص | gh n<br>Incel | ume                     | eral         | )            |              | N         | Non-Elected |          |            | d           |               | A             | Appeal   |          |          |                 |          |         |            |  |
|                              |                 |          | H            | _               |          |          | -           |          | $\vdash$ | +      |  |           |               | 100                     |              |              | 1            | -         |             |          |            |             |               | $\exists$     |          |          |          |                 | $\dashv$ |         |            |  |
|                              |                 |          | =            | Α               | llον     | ve       | d           |          | -        | -      |  | Re        | stric         | ted                     |              |              |              | 1         | Int         | erfe     | renc       | e           |               | 0             | •        | Obje     | ecte     | ed              |          |         |            |  |
|                              |                 |          | Ш            |                 |          |          |             |          | L        |        | _  |           | -             |                         |              |              | )            |           |             |          |            |             |               |               | _        |          |          | -               |          |         |            |  |
|                              | Cla             | aim      |              |                 |          | D        | Date        |          |          |        | 1  | Claim     |               |                         | C            |              | <del></del>  |           |             |          | Clair      | im          |               | Date          |          |          |          |                 |          | ]       |            |  |
|                              |                 | ē        | 4/18/02-     |                 |          |          |             |          |          |        | Ì  |           | a             |                         |              | T            |              |           | T           |          |            | $\neg \neg$ |               | $\Box$        | Т        |          |          |                 |          | Τ       |            |  |
|                              | Final           | Original | 118          |                 |          |          |             |          |          |        |  | Final     | Original      |                         |              |              |              |           |             |          |            | Final       | Original      |               |          |          |          |                 |          |         |            |  |
|                              | _/              | ō        | 6            |                 |          |          |             | ı        |          |        |  | _         | ō             |                         |              |              |              |           |             |          | '          | -           | ō             |               |          | Ì        |          |                 |          |         |            |  |
|                              | 7               | 1        | ·/           |                 |          | $\Box$   | $\Box$      |          |          |        |  |           | 51            | 1                       | $\perp$      | 工            |              |           |             |          |            |             | 01            |               |          |          |          |                 |          |         |            |  |
|                              | +               | 3        |              | Н               | -        | 4        | $\dashv$    | $\dashv$ | +        | -      |  |           | 52<br>53      | -                       | +            | ╁            | $\vdash$     |           | +           | 4-4      | -          |             | 02<br>03      |               | +        | -        | H        | $\vdash$        | +        | +       |            |  |
|                              | +               | 4        | $\dagger$    | H               | +        | $\dashv$ | $\dashv$    | $\dashv$ | +        | -      |  |           | 54            | $\dashv$                | +            | +            | $\vdash$     | $\dashv$  | +           | +        |            |             | 03            |               | +        | +        | +-       | $\vdash$        | +        | +       | •          |  |
|                              |                 | 5        |              |                 |          |          |             |          |          |        | ] [  |           | 55            |                         | T            |              |              |           |             | $\Box$   |            | 1           | 05            |               |          |          |          |                 |          |         |            |  |
|                              | +               | 6<br>7   | 4            | $\vdash$        | $\dashv$ | $\dashv$ | +           | -        | +        | +-     | <del></del>                                  |           | 56<br>57      |                         |              | +            | $\vdash$     | $\Box$    | +           | 44       | -          |             | 06<br>07      | _             | +        | +        | -        | $\dashv$        | +        | -       | -          |  |
|                              | $\vdash$        | 8        | +            | $\vdash$        | -        | $\dashv$ | $\dashv$    | 十        | $\dashv$ | +      | 1 1  |           | 58            | +                       | +            | +            | $\vdash$     | $\vdash$  | +           | +        | l ⊢        |             | 08            | $\neg$        | +        | +-       | $\vdash$ | $\dashv$        | $\dashv$ | ╁╴      | 1          |  |
|                              |                 | 9        |              |                 |          |          | コ           | $\Box$   | $\perp$  |        | 1 [  |           | 59            |                         |              |              |              |           |             |          |            | 1           | 09            |               | 士        |          |          |                 |          |         | ]          |  |
|                              | -               | 10       | #            | $\vdash \vdash$ | _        | $\dashv$ | -           | -        |          | +-     |  |           | 60<br>61      | _                       | +            | +            | -            | -         | -           | 4        | -          |             | 10            | $\dashv$      | 4        | +        | 1        | $\dashv$        | - -      | ╄       |            |  |
|                              | +               | 11<br>12 | ╫╴           | $\vdash$        | ┪        | $\dashv$ | $\dashv$    | $\dashv$ | +        | +      | 1 }  |           | 62            | $\dashv$                | +            | +            | +            | -         | -           | +        | ┝          |             | 11<br>12      | $\dashv$      | +        | +        | $\vdash$ | $\vdash$        | +        | ╁       | 1          |  |
|                              |                 | 13       |              |                 |          |          |             |          |          |        | 1 1  |           | 63            |                         |              |              |              |           |             |          |            | 1           | 13            |               |          |          |          |                 |          |         |            |  |
|                              |                 | 14       |              | Ш               | _        | _        | -           | _        | _        | -      |  |           | 64            | _                       | _            | _            | 1            |           | _           | 4        | _          |             | 14            |               | _        |          | -        |                 |          |         |            |  |
|                              | +               | 15<br>16 | +            | Н               | 1        | $\dashv$ | $\dashv$    | +        | +        | +      | 1 1  |           | 65<br>66      | $\dashv$                | +            | +            | $\vdash$     | $\vdash$  | +           | +        |            | 1           | 15<br>16      | $\vdash$      | +        | +        | -        | $\vdash$        | $\dashv$ | +       | 1          |  |
|                              | 1               | 17       | $\Box$       |                 |          |          |             |          | 1.       |        | 1 [  |           | 67            |                         |              | İ.           |              |           |             |          |            | 1           | 17            |               |          |          |          |                 |          | 士       | ]          |  |
|                              | 7               | 18       | J            |                 | 4        | 4        | 4           | _        | -        | _      |  |           | 68            |                         | _ _          |              |              |           | $\perp$     | 4        | <u> </u> _ | 1           | 18            |               | _        | <u> </u> | $\perp$  | Ш               | $\perp$  | 1       | 1          |  |
|                              | 1               | 19<br>20 | V            |                 | $\dashv$ | $\dashv$ | $\dashv$    | $\dashv$ | -+-      | +      | {  |           | 69<br>70      | +                       | +            | ╁            | +            | $\vdash$  | +           |          | ╎├         |             | 19<br>20      | $\dashv$      | +        | +        | ╁        | $\vdash$        |          | +       | 1          |  |
|                              |                 | 21       |              |                 |          |          |             |          |          |        | 1 [  |           | 71            |                         |              |              |              |           |             |          |            | 1           | 21            |               |          |          | L        |                 |          |         | ]          |  |
|                              |                 | 22       | _            | $\sqcup$        |          | 4        | $\dashv$    | $\perp$  | +        | _      | <b>↓                                    </b> |           | 72            | 4                       | +            | +            | $\vdash$     | $\square$ | $\perp$     | +        | -          |             | 22            | $\dashv$      | +        | $\bot$   | ╄-       | Н               | +        | 4-      | -          |  |
|                              |                 | 23<br>24 | -            | $\vdash$        | -        | -        | +           | $\dashv$ |          | -      | ┪╽   |           | 73<br>74      | $\dashv$                | ╁            | ╁            | $\vdash$     | -         |             |          | l ⊦        | -  <u> </u> | 23<br>24      | $\dashv$      | +        | +        | +        | $\vdash$        |          | ╁       | +          |  |
|                              |                 | 25       |              |                 |          |          |             | 士        |          |        | 1 [  |           | 75            |                         | 丁            |              |              |           |             |          |            | 1           | 25            |               |          |          |          |                 |          | $\top$  | ]          |  |
|                              |                 | 26<br>27 | _            | -               | $\dashv$ | _        | 4           | _        | _        | 4      | <b>↓</b> }                                   |           | 76<br>77      | -                       | 4            | 4-           | -            |           |             | - -      | -          | 1           | 26            | 4             | -        |          |          |                 |          |         | -          |  |
|                              |                 | 28       | H            | $\vdash$        | $\dashv$ | +        | $\dashv$    | $\dashv$ | $\dashv$ |        | ┧┟   |           | 78            | -+                      | +            | - -          | -            |           | +           | +        | l ⊢        |             | 27<br>28      | -             | +        |          | +        | -               | +        | +       | 1          |  |
|                              |                 | 29       |              |                 |          |          |             | 丁        |          |        | 1  |           | 79            |                         |              | 上            |              |           |             |          |            | 1           | 29            |               | #        |          |          |                 |          |         | <u>]</u> . |  |
|                              |                 | 30       |              | $\square$       | _        | $\perp$  | _           | 1        | - -      | +      |  |           | 80            | _                       | 4            | 4            | <u> </u>     | Ц         | _           | +        |            |             | 30            | $\sqcup$      | -        | -        | 1        | $\sqcup$        | $\perp$  | $\perp$ | 4          |  |
|                              |                 | 31<br>32 | -            | $\vdash \vdash$ |          | $\dashv$ | $\dashv$    | $\dashv$ | +        | +      | 1 }  |           | 81<br>82      | +                       | +            | ╁            | +-           | $\vdash$  | +           | +        |            |             | 31<br>32      | $\vdash$      | $\dashv$ | $\dashv$ | -        | $\vdash$        | -        | +       | 1          |  |
|                              |                 | 33       |              |                 |          |          | $\Box$      | $\Box$   | 丰        |        | ] [  |           | 83            | コ                       |              | 上            |              |           | $\exists$   | 口        |            | 1           | 33            |               | 工        |          | T        | 口               | 工        |         | 1          |  |
|                              |                 | 34<br>35 |              | Н               | _        | 4        | $\dashv$    | -        | $\perp$  | +      |  |           | 84<br>85      | +                       | +            | +            | $\vdash$     |           | -           | +        | -          |             | 34<br>35      | oxdot         | 4        | +        | $\perp$  | $\sqcup$        | -        | 1       | 4          |  |
|                              |                 | 36       | $\vdash$     | Н               | -        | -        | $\dashv$    | $\dashv$ | +        | +      | 1 }  |           | 86            | +                       | +            | +            | +            |           | $\dashv$    | +        | -          |             | 35<br>36      | $\vdash$      | +        | +        | +        | $\vdash$        | +        | +       | 1          |  |
|                              |                 | 37       |              |                 |          |          |             |          |          |        | 1  |           | 87            |                         |              |              |              |           |             |          |            | 1           | 37            |               |          |          | 上        |                 |          |         | 1          |  |
|                              |                 | 38<br>39 | _            |                 | _        |          | $\dashv$    | $\dashv$ | +        | +      |  |           | 88<br>89      | +                       | +            | +            | $\vdash$     | Ш         | +           | $\dashv$ | -          |             | 38<br>39      | $\dashv$      | _        | _        | ┼        |                 | _ _      |         | -          |  |
|                              | _               | 40       | <del> </del> | Н               | $\dashv$ | -        | $\dashv$    | $\dashv$ | +        | +      | ┨  |           | 90            | +                       | +            | ╁            | ╁            |           | $\dashv$    | +        | -          |             | 40            |               | +        | ╅        | +        | ╁               | ╁        |         | 1          |  |
|                              |                 | 41       |              |                 |          |          |             |          | $\perp$  |        | 1  |           | 91            | 士                       |              |              |              |           |             |          |            | _ 1         | 41            |               |          |          |          | 口               |          |         | 1          |  |
|                              |                 | 42<br>43 | -            | Н               | _        | $\dashv$ | $\dashv$    | -        |          | -      | $\{\ \}$                                     |           | 92<br>93      | $\dashv$                | +            | +            | -            | $\sqcup$  | +           | $\dashv$ | -          |             | 42<br>43      | ertert        | 4        | _        | -        |                 | -        | +       | 4 .        |  |
|                              | <u> </u>        | 44       | +-           | Н               | $\dashv$ | $\dashv$ | $\dashv$    | $\dashv$ | +        | +      | 1 1  |           | 93            | +                       | +            | +            | $\vdash$     | Н         | +           | +        | -          |             | 43<br>44      | $\vdash$      | -        | +        | +        | $\vdash \vdash$ | +        | +       | 1          |  |
|                              |                 | 45       |              | 口               |          | コ        | $\sqsupset$ | $\Box$   |          |        | 1  |           | 95            | $\Box$                  | 丰            | $\downarrow$ | ightharpoons |           |             |          |            | _ 1         | 45            |               |          |          |          |                 |          | 上       | 1          |  |
|                              |                 | 46<br>47 | -            | Н               | -        |          | -           | $\dashv$ | +        | -      | <b>∤</b> ∤                                   |           | 96<br>97      | +                       | +            | +            | +            | -         | +           | +        | -          |             | 46<br>47      | $\vdash \mid$ | +        | $\dashv$ | +        | $\vdash \vdash$ | +        | +       | -          |  |
|                              |                 | 48       | -            | $\vdash$        | -        | $\dashv$ | $\dashv$    | $\dashv$ | +        | +-     | 1  |           | 98            | +                       | $\dagger$    | +            | +            | H         | +           | +        | -          |             | 47            | H             | +        | +        | +        | $\vdash$        | +        | +       | 1          |  |
|                              |                 | 49       | Γ            |                 |          |          |             |          | $\Box$   | $\bot$ | ]  |           | 99            | $\Box$                  | $\downarrow$ |              |              |           |             | $\Box$   |            | _ 1         | 49            |               |          |          |          |                 | $\perp$  |         | 1          |  |
|                              |                 | 50       |              |                 |          |          |             |          | l_       |        | jl   | L         | 100           |                         | L            |              |              | Ш         |             |          | J L        | 1           | 50            | oxdot         | $\perp$  |          |          | $\sqcup$        |          |         |            |  |

Application/Control No.

Applicant(s)/Patent under